

PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 5

**Complete If Known**

Application Number	10/684,065
Filing Date	October 10, 2003
First Named Inventor	Kenneth W. Welch, Jr.
Art Unit	3746
Examiner Name	Unknown
Attorney Docket Number	021603.0102PTUS (55502-00003)

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
ML ↓	A-1	US-4,914,915	04/10/1990	Linderfelt	
	A-2	US- 4,739,182	04/19/1988	Kenderi	
	A-3	US- 4,726,188	02/23/1988	Woolfolk	
	A-4	US- 4,464,080	08/07/1984	Gorlov	
	A-5	US- 4,455,824	06/26/1984	Dabringhaus	
	A-6	US- 4,425,510	01/10/1984	Jury	
	A-7	US- 4,208,878	06/24/1980	Rainey	
	A-8	US- 4,185,464	01/29/1980	Rainey	
	A-9	US- 4,103,490	08/01/1978	Gorlov	
	A-10	US- 3,047,207	07/31/1962	Baldwin et al.	
	A-11	US- 1,523,031	01/13/1925	Mitchell, Jr.	
	A-12	US- 1,358,259	11/09/1920	Stein	
	A-13	US- 1,105,249	07/28/1914	Bustos	
	A-14	US- 1,038,502	08/20/1912	Marsden	
	A-15	US- 657,355	09/04/1900	Nagler	
	A-16	US- 646,199	03/27/1900	Walker	
	A-17	US- 631,994	08/29/1899	Montague	
	A-18	US- 597,833	01/25/1898	Palmer	
	A-19	US- 597,832	01/25/1898	Palmer	
	A-20	US- 2002/0047273 A1	04/25/2002	Burns et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
ML ↓	B-1	WO 00/05501	02/03/2000	Hafstad		
	B-2	FR 2 479 343	10/02/1981	Chaput		

Examiner  
SignatureDate  
Considered

11/2/2005

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(use as many sheets as necessary)*

Sheet | 2

2

of

5

Attorney Docket Number

**Complete if Known**

Application Number

**10/684,065**

Filing Date

**October 10, 2003**

**First Named Inventor**

**Kenneth W. Welch, Jr.**

### Art Unit

3746

**Examiner Name**

Unknown

Attorney Docket Number

021603.0102PTUS (55502-00003)

**U.S. PATENT DOCUMENTS**

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature	<i>Richard L. Loh</i>	Date Considered	<i>1/16/2005</i>
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**INFORMATION DISCLOSURE  
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Sheet 3

of

5

**Complete if Known**

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Filing Date	October 10, 2003
First Named Inventor	Kenneth W. Welch, Jr.
Art Unit	3746
Examiner Name	Unknown
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
ML	C-1	PCT International Search Report dated February 9, 2004, International Application No. PCT/US03/32374.	
	C-2	RICHARD BOUD; "Status and Research and Development Priorities, 2003 - Wave and Marine Current Energy"; International Energy Agency; DTI Report Number FES-R-132; AEAT Report Number AEAT/ENV/1054; pp. 1-77.	
	C-3	OWEC Proposal; (Prior Wave Energy Conversion Techniques); publication date unknown; pp. 1-4; <a href="http://www.owec.com">www.owec.com</a>	
	C-4	AUSTRALIAN CRC FOR RENEWABLE ENERGY, LTD.; Wave Energy Systems; pp. 1-4; publication date unknown; <a href="http://www.acre.murdoch.edu.au">www.acre.murdoch.edu.au</a>	
	C-5	ATLAS; Wave Energy - Current Market Position; p. 1; publication date unknown; <a href="http://www.europa.eu.int">www.europa.eu.int</a>	
	C-6	ATLAS; Wave Energy - The Technology - Offshore Devices; pp. 1-2; publication date unknown; <a href="http://www.europa.eu.int">www.europa.eu.int</a>	
	C-7	Wave Dragon website; "Wave Dragon - a large offshore wave energy converter"; pp. 1-27; publication date unknown; <a href="http://www.wavedragon.net">www.wavedragon.net</a>	
	C-8	Ocean Power Delivery Ltd. website; "The Pelamis Wave Energy Converter"; pp. 1-2; publication date unknown; <a href="http://www.oceanpd.com">www.oceanpd.com</a>	
	C-9	Hydam Technology Limited website; pp. 1-4; publication date unknown; <a href="http://www.wave-power.com">www.wave-power.com</a>	
	C-10	Archimedes Wave Swing website; pp. 1-8; publication date unknown; <a href="http://www.waveswing.wvxs.net">www.waveswing.wvxs.net</a>	
	C-11	AquaEnergy Group Ltd. website; pp. 1-8; publication date unknown; <a href="http://www.aquaenergygroup.com">www.aquaenergygroup.com</a>	

Examiner Signature	<i>Michael G. Soli</i>	Date Considered	11/12/2005
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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/684,065
		Filing Date	October 10, 2003
		First Named Inventor	Kenneth W. Welch, Jr.
		Group Art Unit	3746
		Examiner Name	Unknown
Sheet 4 of 5	Attorney Docket Number	021603.0102PTUS (55502-00003)	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
ML	C-12	Float Incorporated website; "The Pneumatically Stabilized Platform or PSP"; pp. 1-8; February 22, 2004; www.floatinc.com	
	C-13	Ocean Power Technologies website; "The Power of Waves. The Future of Energy." pp. 1-5; publication date unknown; www.oceanpowertechologies.com	
	C-14	Scientific Applications & Research Associates (SARA) Inc. website; "Renewable & Alternative Electrical Energy"; pp. 1-4; publication date unknown; www.sara.com.	
	C-15	Energetech website; "Sustainable and Innovative Energy"; pp. 1-4; publication date unknown; www.energetech.com.au.	
	C-16	EUREKA website; "Wave Power"; pp. 1-2; publication date unknown; www.eureka.be.	
	C-17	Global Technology website; "Plymouth launches new power source on the crest of a wave!"; pp. 1-2; publication date unknown; www.globaltechnoscan.com.	
	C-18	J R M Taylor, I Mackay; "The Design of an eddy current dynamometer for a free-floating sloped IPS buoy"; Paper given at MAREC 2001 International Conference on Marine Renewable Energies organized by the Institute of Marine Engineers and the University of Newcastle; March 2001; pp. 1-11; www.mech.ed.ac.uk.	
	C-19	World Energy website; "WEC Survey of Energy Resources 2001 - Wave Energy"; pp. 1-15; publication date unknown; www.worldenergy.org.	
	C-20	Wavegen website; pp. 1-4; publication date unknown; www.wavegen.co.uk.	
	C-21	DaeDalus Ltd. website; "Introduction to an advanced Hybrid (Wave & Wind) Renewable Energy Technology (RET) Multipurpose System"; pp. 1-5; publication date unknown; 195.170.12.01/DAE/PRODUCTS/RET/General/RETWW1.html.	
↓	C-22	Ocean Motion International website; "Floating Platform"; no information available on website; www.oceanmotion.net.	

Examiner Signature	<i>Michael L. Loebe</i>	Date Considered	11/2/03
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Sheet

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Group Art Unit	3746
Examiner Name	Unknown
Attorney Docket Number	021603.0102PTUS (55502-00003)

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

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ML	C-23	Kvaerner website; "Offshore OWC"; no information available on website; www.kvaerner.com.	
	C-24	U.S. Myriad Technologies website; "SEAGENS"; no company website information available.	
	C-25	SeaVolt Technologies website; "Wave Rider"; no information available on website; www.seapower.cc.	
	C-26	Edinburgh University; "Salter Duck"; no company website information available.	
	C-27	"Sea Clam"; No company information available.	
	C-28	"Tapchan"; No company information available.	
	C-29	Muroran Institute of Technology and Cold-Region Port and Harbor Research Center website; "Pendulum"; no information available on website; www.muroran-it.ac.jp.	
	C-30	Japan Marine Science and Technology Center website; "Mighty Whale"; no information available on website; www.jamstec.go.jp.	
	C-31	Yoshio Masuda of Japan; "Backward Bend Duct Buoy"; no website information available.	
	C-32	"Swedish Hosepump"; No company information.	
	C-33	Lancaster University - Professor French website; "PS Frog"; no website information available.	

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Considered

11/12/2005

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Sheet 1 of 2

<b>Application Number</b>	10/684,065
<b>Filing Date</b>	October 10, 2003
<b>First Named Inventor</b>	Welch et al.
<b>Art Unit</b>	3746
<b>Examiner Name</b>	Unknown
<b>Attorney Docket Number</b>	021603.0102PTUS

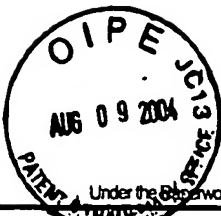
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ML	C-34	J.R. THOMAS; The Absorption of Wave Energy by a Three-Dimensional Submerged Duct; Journal of Fluid Mechanics, Cambridge University Press, Cambridge, GB; Vol. 104; March 1981; pp. 189-215.	
	C-35	T.J.T. WHITTAKER and F.A. McPEAKE; Design Optimization of Axi-Symmetric Tail Tube Buoys; Hydrodynamics of Ocean Wave-Energy Utilization; IUTAM Symposium, 1985; pp. 103-111.	
	C-36	KENNETH P. MELVIN; A Wave Energy Engine and Proposals for Its Development and Usage; IEEE 1988; pp. 1055-1060.	
↓	C-37	PCT International Search Report dated July 19, 2004, International Application No. PCT/US 03/32377.	

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Sheet	1	of	1
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<b>Art Unit</b>	3746
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<b>Attorney Docket Number</b>	021603.0102PTUS

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

[illegible]

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Signature**

Date Considered

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